

**From:** Piro, Peter (DPH) </O=COMMONWEALTH OF MASSACHUSETTS/OU=MASSMAIL-01/CN=RECIPIENTS/CN=PETER.PIRO>  
**Sent:** Monday, March 7, 2011 2:47 PM  
**To:** Farak, Sonja (DPH) <Sonja.Farak@MassMail.State.MA.US>  
**Subject:** RE: GC/MS Question

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Sonja,  
I've asked Annie to pull the first lisdexamfetamine she confirmed to find out what colors (orange marquis?) she got and specifically what cleanup she used. She'll get back to you about that and also look into the GC/MS we got. The UV may also be similar to amphetamine.  
-Peter

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**From:** Farak, Sonja (DPH)  
**Sent:** Monday, March 07, 2011 12:48 PM  
**To:** Piro, Peter (DPH)  
**Subject:** RE: GC/MS Question

It it's an "E", then I won't need to confirm it. When I did run it on the GC/MS, I actually got a (very poor) match quality with methylphenidate (42%). Big 84 M/Z peak, followed by 101, 91, and 56, so I'm concerned that it may not be what it is suppose to be. Only thing on the guy too (and it actually is a North Attleboro sample)

Thanks,

Sonja

Sonja Farak  
Drug Analysis Lab

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**From:** Piro, Peter (DPH)  
**Sent:** Monday, March 07, 2011 11:15 AM  
**To:** Farak, Sonja (DPH)  
**Subject:** RE: GC/MS Question

Hi Sonja,  
We've had Lisdexamfetamine in the past. If it is not specifically mentioned in class A, B, C, or D, then it will be a class E. I believe Annie has confirmed them in the past by IR when we first encountered them. Since it's likely an E, do you still need to test it? If you do, maybe the cleanup for clonidine (to get rid of steric acid) would work. Dissolve sample in water, isolate water, add bicarbonate and extract with CHCl<sub>3</sub>. Did the GC/MS give amphetamine or anything?

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**From:** Farak, Sonja (DPH)  
**Sent:** Monday, March 07, 2011 8:57 AM  
**To:** Piro, Peter (DPH)  
**Subject:** GC/MS Question

Hi Peter-

I received some capsules of Vyvanse® (Lisdexamfetamine dimesylate) to analyze but am having trouble doing it. From what I've read, it's a prodrug of dextroamphetamine and is only activated by an enzyme in the stomach/GI tract. Have you run into this? Any idea how to analyze it? FTIR didn't come up with anything. Also, I know that it is a CII federally, so I'm

guessing that it would be a class B for us, right?

Thanks,

Sonja

Sonja Farak  
Drug Analysis Lab

Full prescribing information:

[http://pi.shirecontent.com/PI/PDFs/Vyvanse\\_USA\\_ENG.pdf](http://pi.shirecontent.com/PI/PDFs/Vyvanse_USA_ENG.pdf)